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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

4/02/2003

KRISTINA BIEKER BRADY PHD CLARK & ELBING LLP 176 FEDERAL STREET BOSTON, MA 02110

EXA	AMINER		
SHUKI	SHUKLA, RAM R		
ART UNIT	CLASS-SUBCLASS		
1632	536-023500		

DATE MAILED: 04/02/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/984.178	12/03/1997	H.ROBERT HORVITZ	01997198006	1856

TITLE OF INVENTION: CLONING SEQUENCING AND CHARACTERIZATION OF TWO CELL DEATH GENES AND USES THEREFOR

				(CONT.) PSS(C) DUE	DATE DUE
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	
nonprovisional	NO	\$1300	\$0	\$1300	07/02/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

(703)746-4000 **Fax**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee swift features. maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block)

7590

04/02/2003

KRISTINA BIEKER BRADY PHD **CLARK & ELBING LLP** 176 FEDERAL STREET BOSTON, MA 02110

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name) (Signature

CONFIRMATION NO. ATTORNEY DOCKET NO. FIRST NAMED INVENTOR APPLICATION NO. FILING DATE 01997198006 1856 H.ROBERT HORVITZ 12/03/1997 08/984,178

TITLE OF INVENTION: CLONING SEQUENCING AND CHARACTERIZATION OF TWO CELL DEATH GENES AND USES THEREFOR

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$0	\$1300	07/02/2003
EXAM	INER	ART UNIT	CLASS-SUBCLASS		
SHUKLA	, RAM R	1632	536-023500		
CFR 1.363). Change of corresponded ress form PTO/SB/	dence address or indication of dence address (or Change of 122) attached. tion (or "Fee Address" Ind or more recent) attached.	of Correspondence	2. For printing on the patent fr the names of up to 3 registered or agents OR, alternatively, (2 single firm (having as a men attorney or agent) and the na registered patent attorneys or ag is listed, no name will be printed	l patent attorneys) the name of a her a registered mes of up to 2 gents. If no name	
	an assignee is identified bed to the USPTO or is being			of assignee data is only appropri NOT a substitute for filing an ass R COUNTRY)	ate when an assignment ha ignment.
Please check the appropria	ate assignee category or cat	egories (will not be printed	on the patent) 🗀 individua	al corporation or other private	group entity 🗖 governme
4a. The following fee(s) as		4b. Pay	ment of Fee(s):		
☐ Issue Fee ☐ Publication Fee		□ Pavn	eck in the amount of the fee(s) is nent by credit card. Form PTO-20 Commissioner is hereby authorize	38 is attached.	r credit any overpayment, to
☐ Advance Order - # of	Copies	— □ Inc C	Account Number	(enclose an extra copy of thi	s form).

Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

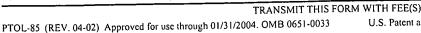
(Authorized Signature)

(Date)

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE





UNITED STATES PATENT AND TRADEMARK OFFICE

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OR LOW THOUSAND	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.	12/03/1997	H.ROBERT HORVITZ	01997198006	1856
08/984,178	••••		EXAMINER	
KRISTINA BIE	590 04/02/2003 KER BRADY PHD		SHUKLA, F	RAM R
CLARK & ELBIN			ART UNIT	PAPER NUMBER
BOSTON, MA 02			1632	
			DATE MAILED: 04/02/2003	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.





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CLARK & ELBIN			ART UNIT	PAPER NUMBER
176 FEDERAL ST BOSTON, MA 02			1632	
			DATE MAILED: 04/02/2003	

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
	08/984,178	HORVITZ ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Ram R. Shukla	1632	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 1-8-03. 2. The allowed claim(s) is/are 1.3,4 and 70-72. 3. The drawings filed on 03 December 1997 are accepted by	(OR REMAINS) CLOSED or other appropriate comr (GHTS). This application is and MPEP 1308. the Examiner.	in this application. If not included munication will be mailed in due cour s subject to withdrawal from issue at	se. THIS
 4. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 	ler 35 U.S.C. § 119(a)-(d)	or (f).	
1. Certified copies of the priority documents have	been received.		
2. Certified copies of the priority documents have		tion No	
3. Copies of the certified copies of the priority document of the priority document of the priority document of the certified copies of the priority document of the certified copies not received: 5. Acknowledgment is made of a claim for domestic priority up to the certified copies not received: (a) The translation of the foreign language provisional and the certified copies of the priority up to the certified copies of the priority up to the certified copies of the priority document is made of a claim for domestic priority up to the certified copies of the priority document is made of a claim for domestic priority up to the certified copies of the priority document is made of a claim for domestic priority up to the certified copies of the priority document is made of a claim for domestic priority up to the certified copies of the priority document is made of a claim for domestic priority up to the certified copies not received: 5. Acknowledgment is made of a claim for domestic priority up to the certified copies not received: 6. Acknowledgment is made of a claim for domestic priority up to the certified copies not received:	cuments have been receivender 35 U.S.C. § 119(e) (topplication has been receive	red in this national stage application for a provisional application).	from the
c. 23 / tottletile eg. tottletile e. a otalii tot a come prompt e.			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of 7. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which gives reas	this application. THIS TH	IREE-MONTH PERIOD IS NOT EXT XAMINER'S AMENDMENT or NOTI	ENDABLE.
 8. ☐ CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No (b) ☐ including changes required by the proposed drawing of including changes required by the attached Examiner 	correction filed, wl	nich has been approved by the Exam	
Identifying indicia such as the application number (see 37 CFR 1 of each sheet. The drawings should be filed as a separate paper			ne back)
9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T			the
Attachment(s)			
1⊠ Notice of References Cited (PTO-892) 3⊠ Notice of Draftperson's Patent Drawing Review (PTO-948) 5□ Information Disclosure Statements (PTO-1449), Paper No 7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material	4∐ Intervi 6⊠ Exami	e of Informal Patent Application (PTO- ew Summary (PTO-413), Paper No iner's Amendment/Comment iner's Statement of Reasons for Allow	·

Art Unit: 1632

EXAMINER'S COMMENTS

- 1. The US patent 6,087,160, 7-11-00, effective filing date 6-24-1993 is made of record. It is noted that SEQ ID NO 1 of this patent has 100% sequence identity with the sequence of SEQ ID NO 18 of the instant application. However, the patent is not an art against the instant application since the patent has a later filing date.
- 2. The nature paper of Hengartner et al. 1992 has been considered and included in the reference cited form.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram R. Shukla whose telephone number is (703) 305-1677. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Reynolds, can be reached on (703) 305-4051. The fax phone number for this Group is (703) 308-4242. Any inquiry of a general nature, formal matters or relating to the status of this application or proceeding should be directed to the William Phillips whose telephone number is (703) 305-3413.

Ram R. Shukla, Ph.D. Primary Examiner Art Unit 1632 PATENT EXAMINER